

NEW COMBINATIONS AND NEW SYNONYMS IN
NORTH AMERICAN BRACONIDAE (HYMENOPTERA)

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ABSTRACT—Thirty new synonyms, 12 new name combinations, and two new names are proposed for North American Braconidae for inclusion in the forthcoming revised catalog of North American Hymenoptera.

The following new combinations and new synonyms are presented here in order to validate them for inclusion in the forthcoming revised catalog of North American Hymenoptera. All proposed changes are the result of recent examination of the type specimens involved. I wish to thank the following persons who have allowed me to study types in their collections: Paul H. Arnaud, Jr., George W. Byers, W. R. M. Mason, J. Papp, L. L. Pechuman, R. D. Shenefelt, and H. Townes.

Genus *Bucculatriplex* Viereck

Bucculatriplex bucculatricis (Ashmead), 1889(1888):618.

Bucculatriplex secundus Viereck, 1917(1916):765. Synonymy by Muesebeck and Walkley, 1951:173.

Ademon leptogaster Fischer, 1965:198. New synonymy.

Genus *Chelonus* Subgenus *Microchelonus* Szépligeti

Chelonus (*Microchelonus*) *mccombi* Marsh, new name.

Chelonus (*Microchelonus*) *aberrans* McComb, 1968(1967):15. Preoccupied by Tobias, 1964.

Genus *Gnaptodon* Haliday

Gnaptodon nepticulae (Rohwer), 1915:229.

Gnaptodon pulchrigaster Fischer, 1965:176. New synonymy.

Genus *Hypomicrogaster* Ashmead

Hypomicrogaster ecdytophae (Muesebeck), new combination.

Microgaster ecdytophae Muesebeck, 1922:24.

This species was not included by Nixon, 1965, in his revision of the genus.

Genus *Microplitis* Foerster

Microplitis muesebecki Marsh, new name.

Microplitis stigmaticus Muesebeck, 1922:47. Preoccupied by Ratzeburg, 1844. Shenefelt, 1973:763, incorrectly proposed the name *stigmativetus* for *stigmaticus* Ratzeburg, not for *stigmaticus* Muesebeck. Consequently, *stigmativetus* Shenefelt becomes a new synonym of *stigmaticus* Ratzeburg.

Genus *Opius* Wesmael

An examination of the type-species of *Brachycentrus* Szépligeti revealed that it should be added to the long list of generic synonyms of *Opius*. The new synonymy is as follows:

Brachycentrus Szépligeti, 1907:35. Preoccupied by Curtis, 1834. New synonymy.

Type-species: *Brachycentrus minutus* Szépligeti. Monotypic.

Bacocentrum Schulz, 1911(1909):65. New name for *Brachycentrus* Szépligeti.

New synonymy.

The following extensive list of synonyms of North American species in *Opius* resulted from recent examination of holotypes described by Fischer, 1964, 1965, 1970, Gahan, 1915, 1919, Viereck, 1905, 1917(1916), and Ashmead, 1889(1888), 1893.

Opius aberrans Viereck, 1905:271.

Opius crabtrccanus Fischer, 1964:470. New synonymy.

Opius masoni Fischer, 1964:480. New synonymy.

Opius suffixus Fischer, 1964:493. New synonymy.

Opiusalconanus Fischer, 1964:416.

Opius apterus Fischer, 1964:417. New synonymy.

Opius americanus Gahan, 1915:91.

Opius extraordinarius Fischer, 1965:9. New synonymy.

Opius apicalis Gahan, 1915:85.

Opius exareolatus Viereck, 1917(1916):183. New synonymy.

Opius basiniger Viereck, 1905:270.

Opius foersteri Gahan, 1915:83. New synonymy.

Opius blantoni Fischer, 1964:338.

Opius vockerothi Fischer, 1964:348. New synonymy.

Opius brunneitarsis Gahan, 1915:77.

Opius ingens Fischer, 1965:11. New synonymy.

Opius downesi Gahan, 1919:164.

Opius berberidis Fischer, 1964:358. New synonymy.

Opius farmingdalicus Fischer, 1964:475.

Opius cinerifactus Fischer, 1964:503. New synonymy.

Opius farmingdaleensis Fischer, 1964:507. New synonymy.

Opius foutsii Fischer, 1964:401.

Opius westerlyanus Fischer, 1964:528. New synonymy.

Opius gahani Muesebeck, 1931:11.

Opius gahauoides Fischer, 1964:283. New synonymy.

Opius globigaster Fischer, 1964:387.

Opius grafi Fischer, 1964:389. New synonymy.

Opius hollisterensis Fischer, 1964:328.

Opius hagermanicus Fischer, 1965:43. New synonymy.

Opius igneus Fischer, 1964:477.

Opius pinkbedanus Fischer, 1964:488. New synonymy.

Opius nigrocastaneus Viereck, 1905:272.

Opius amensis Fischer, 1964:309. New synonymy.

Opius oscinidis (Ashmead), 1889(1888):630.

Opius pusilloides Fischer, 1964:433. New synonymy.

Fischer's description of *oscinidis* (1964:234) was based on misidentified

specimens which represent another species apparently similar to *ignifer* Fischer (1964:232). However, the holotypes of *oscinidis* and *pusilloides* are the same.

Opius pallidipalpalis Fischer, 1964:482.

Opius paratakomanus Fischer, 1964:484. New synonymy.

Opius pelcus Fischer, 1970:802.

Opius telephosi Fischer, 1970:812. New synonymy.

Opius pequodorum Viereck, 1917 (1916):183.

Opius testaceifactus Fischer, 1964:220. New synonymy.

Opius provancheri Dalla Torre, 1898:164.

Opius demodokos Fischer, 1970:785. New synonymy.

Opius punctipes Fischer, 1964:405.

Opius cclulosus Fischer, 1965:29. New synonymy.

Opius tibialis (Ashmead), 1893:79.

Opius extriatus Fischer, 1964:473. New synonymy.

Genus *Protomicroplitis* Ashmead

Protomicroplitis bakeri (Muesebeck). New combination.

Microgaster bakeri Muesebeck, 1922:29.

Protomicroplitis iridescens (Cresson). New combination.

Microgaster iridescens Cresson, 1865:68.

Neither of the above species was included by Nixon, 1965, in his revision of the genus.

Genus *Taphacus* Wesmael

Taphacus polydrusi (Gahan). New combination.

Diospilus polydrusi Gahan, 1916:23.

Genus *Wroughtonia* Cameron

Watanabe, 1972, synonymized the genera *Helconidea* Viereck and *Duportia* Kieffer with *Wroughtonia* Cameron on the basis of descriptions only. I have seen the type-species for each genus and concur with his conclusion. New combinations for North American species formerly in the genus *Helconidea* are as follows:

Wroughtonia borealis (Cresson). New combination.

Wroughtonia castanea (Viereck). New combination.

Wroughtonia ferruginea (Brues). New combination.

Wroughtonia frigida (Cresson). New combination.

Wroughtonia grandis (Ashmead). New combination.

Wroughtonia ligator (Say). New combination.

Wroughtonia necydalidis (Cushman). New combination.

Wroughtonia occidentalis (Cresson). New combination.

Genus *Zelee* Curtis

Zelee mellea (Cresson), 1872:178.

Zelee crassicalcarata Viereck, 1905:279. New synonymy.

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SOME TAXONOMIC CHANGES IN BAETIDAE (EPHEMEROPTERA)

Daggy (1945, Ann. Entomol. Soc. Amer. 38:394) described a new species of *Pseudocloeon*, *P. minutum* Daggy. He noted that the nymph had three equal caudal filaments, although the terminal filament is usually vestigial in *Pseudocloeon*. Examination of specimens loaned to me by E. F. Cook proves that the species is assignable to the genus *Paracloecodes* Day (1955, Pan-Pac. Entomol. 31:121). The correct name for *minutum* is *Paracloecodes minutus* Daggy, new combination.

R. W. Koss (1972, Entomol. News 83:98) named *Bactodes arizonensis* and R. K. Allen and E. S. Chao (1972, Bull. So. Calif. Acad. Sci. 71:52) named *Bactodes sigillatus*. The two names obviously apply to a single species, specimens of both are from Arizona, and both are in journals dated April, 1972. Nevertheless, the name *Bactodes arizonensis* Koss was published prior to *Bactodes sigillatus* Allen and Chao, new synonymy.

A. E. Eaton (1885, Trans. Linn. Soc. Lond., 2nd Ser. Zool. 3:179) described *Centroptilum poeyi* from Cuba, noting that the marginal intercalaries are mostly in pairs. I examined the type at the Museum of Comparative Zoology, Cambridge, Mass., U.S.A. The species is properly assignable to *Bactis*, hence the name is *Bactis poeyi* (Eaton), new combination.

D. M. Lehmkuhl (1973, Can. Entomol. 105:343) has named *Bactis bundyi*, dedicated to his wife; the correct genitive form is *Bactis bundyae*.

L. P. Navas (1924 Broteria 21:69) erected *Neobactis* as a new genus for the new species *paulinus* Navas. No characters were given to distinguish the new genus from *Callibaetis*. From the figure of the hind wing most workers have suspected that *paulinus* was a species of *Callibaetis*. It was intended that J. S. Packer (1966 Ceiba 12:9) would indicate that *Neobactis* was probably a synonym of *Callibaetis* but through a typographical error the indication (? = *Neobactis*) was placed with *Pseudocloeon*. There is no basis for distinguishing *Neobactis* from *Callibaetis* from the description. I regard the two names as synonyms, hence *Callibaetis paulinus* (Navas), new combination.